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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,644	01/08/2002	Jacques F. Banchereau	13786-7 7691	
	7590 11/07/200 ER, GILSON & LION	EXAMINER		
2801 SLATER ROAD, SUITE 120			CHANDRA, GYAN	
MORRISVILLE, NC 27560			ART UNIT	PAPER NUMBER
			1646	
			MAIL DATE	DELIVERY MODE
			11/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	
Office Action Summary				
		10/042,644	BANCHEREAU ET AL.	
	omec Action Cummary	Examiner	Art Unit	
	The MAILING DATE of this communication app	GYAN CHANDRA	1646	
Period fo		lears on the cover sheet with the c	orrespondence address	
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a solution of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirviil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed I the mailing date of this communication. ED (35 U.S.C. § 133).	
Status				
2a)□	Responsive to communication(s) filed on <u>10 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dienosit	ion of Claims			
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) <u>99-103</u> is/are pending in the application 4a) Of the above claim(s) <u>101 and 102</u> is/are with Claim(s) <u></u>	ithdrawn from consideration.		
Applicat	ion Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examine The specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification is objected to be specification.	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). ijected to. See 37 CFR 1.121(d).	
Priority (under 35 U.S.C. § 119			
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
2) Notice	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 5/6/08; 9/10/08.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/10/2008 has been entered.

Status of Application, Amendments, And/Or Claims

Claims 1-98 have been cancelled. The addition of claim 103 has been made of record.

Claims 101-102 remain withdrawn for the reasons of record in pg. 2 of the office action of 3/11/2008. It is noted that the claims, as filed on 9/10/2008, do not properly identify the claim status (e.g., claims 101 and 102 must indicate as withdrawn).

Claims 99, 100 and 103 are examined on the merit to the extent that they read on the elected species psoriasis, and an antibody as the interferon antagonist.

Response to Arguments

Claim Objections-maintained

Claim 100 remains objected for reciting non-elected inventions (i.e., aplastic anemia, Behecet's disease.... and lupus) for the reasons of record in pg. 2 of the Office Action of 3/11/2008. Applicant argues that the objection be held in abeyance until

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allowance of generic claim 99 upon which other species should be examined under 37 CFR 1.141 stated at page 2 of the Office Action of 8/23/2005. This is found persuasive.

Claim Rejections - 35 USC § 102-withdrawn

Applicant's arguments, see Response, filed 9/10/2008, with respect to the rejection(s) of claim(s) 99-100 under 35 U.S.C. 102(b) as being anticipated by Skurkovich et al (US Patent No. 5,888,511) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Applicants' cancellation of claims 80-81, 85-92 and 96-98; and the addition of claim 103.

New Grounds of Rejection

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 99, 100 and 103 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skurkovich (5,888,511).

The instant claims are broadly drawn to a method of treating an autoimmune disease in a subject comprising administering a composition consisting of one or more antibodies consisting of one or more humanized or human monoclonal anti-IFN- α antibodies or antigen-binding fragments thereof and a diluent, a preservative, a solubilizer, an emulsifier, an adjuvant, a carrier, a buffer, a pharmaceutical additive, a detergent, an anti-oxidant, a bulking substance, a tonicity modifier, a flavoring agent, a lubricant, a suspending agent, a filler, a glidant, a compression aid, a binder, a tablet-disintegrating agent, an encapsulating material, a sweetener, a thickening agent, a color, a viscosity regulator, a stabilizer, an osmo-regulator, a pharmaceutically acceptable propellant, a flavorant, a dye, a coating, or a combination of any thereof, wherein said autoimmune disease is not rheumatoid arthritis, Acquired Immune Deficiency Syndrome (AIDS), or diabetes (claim 99), wherein the autoimmune diseases

is psoriasis (claim 100), and wherein the autoimmune diseases is not ankylosing spondylitis (claim 103).

Skurkovich et al teach that autoimmune disease results when an individual's immune system attacks his own organs or tissues, producing a clinical condition associated with the destruction of that tissue, as exemplified by diseases such as rheumatoid arthritis, insulin-dependent diabetes mellitus, acquired immunodeficiency syndrome ("AIDS"), hemolytic anemias, rheumatic fever, Crohn's disease, Guillain-Barre syndrome, psoriasis, thyroiditis, Graves' disease, myasthenia gravis, glomerulonephritis, autoimmune hepatitis, multiple sclerosis, systemic lupus erythematosus (col. 1, lines 35+). They teach that inhibiting the immune response or removing the cause for an autoimmune disease is desirable (col. 1, lines 44-46). They teach that autoimmune diseases are connected with a disturbance in the synthesis of interferons and other cytokines induced by interferons (col. 2, lines19+). Skurkovich et al teach that IFN has been found in the circulation of patients with autoimmune diseases, and it has been neutralized in vivo with an antibody to leukocyte (alpha) IFN (IFN- α) and that healthy people do not have interferon in their blood (col. 2, lines 27+). They define the term "antibody" is intended to include monoclonal or polyclonal antibodies, or a combination thereof, humanized forms of the monoclonal antibodies (comprising only human antibody protein), and chimeric monoclonal antibodies, as well as biologically active fragments, functional equivalents, derivatives, or allelic or species variants thereof (col. 15, lines 2+). Skurkovich et al teach that techniques for preparing monoclonal antibodies are well known in the art, and they cite the references Campbell Application/Control Number: 10/042,644 Page 6

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(19840 and St. Groth (1980) to support the state of the art (col. 16, lines 4+).

Skurkovich et al teach preparing a pharmaceutical composition comprising a flavoring agent, disintegrating agent, gladiant, or a sweetening agent (col. 19, lines 30+).

Therefore, it would have been prima facie obvious to one of ordinary skill in the art at the time of invention was made to treat an autoimmune disease where interferon alpha antibody is present in the blood of a subject having said autoimmune disease by administering a monoclonal antibody against interferon- α as taught by Skurkovich et al. One would have been motivated to administer an anti-interferon α monoclonal antibody because Skurkovich et al teach that IFN has been found in the circulation of patients with autoimmune diseases and not in healthy subjects (col. 2, lines 27+). Additionally, one would have a reasonable expectation of success in treating a subject in need thereof by administering a therapeutically effective amount of a composition consisting of a monoclonal anti-IFN- α or humanized IFN- α because Skurkovich et al teach administering anti-IFN- α for treating rheumatoid arthritis (which is an autoimmune disease) (col. 24, Example 3).

Conclusion

No claim is allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to GYAN CHANDRA whose telephone number is

(571)272-2922. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Nickol can be reached on (571) 272-0835. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gyan Chandra Art Unit 1646 29 October 2008

Fax: 571-273-2922

/Robert Landsman/ Primary Examiner, Art Unit 1647